

WHAT IS CLAIMED IS:

1. A functionalized perfluoropolyether lubricant useful in magnetic recording media and optical recording media comprising at least about two acrylate endgroups.
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2. A functionalized perfluoropolyether lubricant comprising at least about three acrylate endgroups.
- 10 3. A functionalized perfluoropolyether lubricant according to claim 2 comprising a perfluoropolyether tetraacrylate.
4. A functionalized perfluoropolyether lubricant according to claim 3 having a molecular weight of from about 2000 to about 3000.
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5. A functionalized perfluoropolyether lubricant comprising a perfluoropolyether tetraacrylate having the formula
$$\text{AcCH}_2\text{CHAcCH}_2\text{OCH}_2\text{CF}_2\text{O}(\text{CF}_2\text{CF}_2\text{O})_p(\text{CF}_2\text{O})_q\text{CF}_2\text{CH}_2\text{OCH}_2\text{CHAcCH}_2\text{Ac}$$

wherein Ac is OCOCHCH_2 , p is an integer of from about 3 to about 9, and q is an integer of from about 2 to about 5.
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6. An optical recording medium comprising at least one thin film of magneto-optical material disposed between two protective layers, wherein the surface of said optical recording medium has a lubricant according to claim 1 deposited thereon.
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7. An optical recording medium according to claim 6 wherein said lubricant is subjected to ultraviolet rays after deposition on said thin film.

8. An optical recording medium according to claim 6 wherein said lubricant is a functionalized perfluoropolyether lubricant having a molecular weight of from about 2000 to about 3000.

5 9. A magnetic recording medium according to claim 6 wherein said lubricant is a functionalized perfluoropolyether lubricant comprising a perfluoropolyether tetraacrylate having the formula
$$\text{AcCH}_2\text{CHAcCH}_2\text{OCH}_2\text{CF}_2\text{O}(\text{CF}_2\text{CF}_2\text{O})_p(\text{CF}_2\text{O})_q\text{CF}_2\text{CH}_2\text{OCH}_2\text{CHAcCH}_2\text{Ac}$$

wherein Ac is OCOCHCH_2 , p is an integer of from about 3 to about 9, and q is an
10 integer of from about 2 to about 5.

10. A magnetic recording medium comprising at least one thin metal recording layer, said layer having a lubricant according to claim 1 deposited thereon.

15 11. A magnetic recording medium according to claim 10 wherein said lubricant is a functionalized perfluoropolyether lubricant having a molecular weight of from about 2000 to about 3000.

20 12. A magnetic recording medium according to claim 10 wherein said lubricant is a functionalized perfluoropolyether lubricant comprising a perfluoropolyether tetraacrylate having the formula
$$\text{AcCH}_2\text{CHAcCH}_2\text{OCH}_2\text{CF}_2\text{O}(\text{CF}_2\text{CF}_2\text{O})_p(\text{CF}_2\text{O})_q\text{CF}_2\text{CH}_2\text{OCH}_2\text{CHAcCH}_2\text{Ac}$$

wherein Ac is OCOCHCH_2 , p is an integer of from about 3 to about 9, and q is an
integer of from about 2 to about 5.

25 13. A magnetic recording medium according to claim 10 wherein said medium comprises a thin film stack, said stack comprising multiple thin film layers, at least one layer thereof not having an information recording function.